Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

- 1-76. (Canceled)
- 77. (Previously Presented) A method of maskless lithographic pattern generation using an array of exposure cells wherein the exposure cells expose separate areas of a surface to be exposed.
- 78. (Previously Presented) The method of claim 77, wherein a substantial portion of the separate areas are exposed simultaneously.
- 79. (Previously Presented) The method of claim 77, further comprising moving through a sequence of horizontal and vertical motions at least one of the array of exposure cells and the surface to be exposed.
- 80. (Currently Amended) The method of claim 77, further comprising aligning by electro-magnetic coupling the array of exposure cells and the surface to be exposed.
- 81. (Previously Presented) The method of claim 77, wherein each exposure cell is selected from the group consisting of a radiation source cell or a shuttered cell.

- 82. (Previously Presented) The method of claim 77, wherein the shutter of a shuttered cell is used to vary operation of the exposure cell.
- 83. (Previously Presented) The method of claim 77, wherein radiation from a radiation source cell is selected from the group consisting of electrons, protons, X-ray, UV or optical.
- 84. (Previously Presented) A method of maskless lithographic pattern generation, the method comprising:

providing an array of exposure cells on a substrate, wherein the exposure cells expose separate areas of a surface to be exposed; and

providing a stress-controlled dielectric layer on the substrate.

- 85. (Previously Presented) The method of claim 84, wherein a substantial portion of the separate areas are exposed simultaneously.
- 86. (Previously Presented) The method of claim 84, further comprising moving through a sequence of horizontal and vertical motions at least one of the array of exposure cells and the surface to be exposed.

- 87. (Currently Amended) The method of claim 84, further comprising aligning by electro-magnetic coupling the array of exposure cells and the surface to be exposed.
- 88. (Previously Presented) The method of claim 84, wherein each exposure cell is selected from the group consisting of a radiation source cell or a shuttered cell.
- 89. (Previously Presented) The method of claim 84, wherein the shutter of a shuttered cell is used to vary operation of the exposure cell.
- 90. (Previously Presented) The method of claim 84, wherein radiation from a radiation source cell is selected from the group consisting of electrons, protons, X-ray, UV or optical.
- 91. (Previously Presented) The method of claim 84, wherein the stress of the stress-controlled dielectric layer is less than about 8 x 10^8 dynes/cm².
- 92. (New) The method of claim 77, wherein the array of exposure cells includes at least one million cells.
- 93. (New) The method of claim 77, further comprising providing at least one stress-controlled dielectric layer.

- 94. (New) The method of claim 93, wherein the stress of the at least one stress-controlled dielectric layer is less than about 8 x 10^8 dynes/cm².
- 95. (New) The method of claim 94, wherein the stress is tensile.
- 96. (New) The method of claim 93, wherein the stress of the at least one stress-controlled dielectric layer is 2 to 100 times less than the fracture strength of the at least one stress-controlled dielectric layer.
- 97. (New) The method of claim 96, wherein the stress is tensile.
- 98. (New) The method of claim 93, wherein the at least one stress-controlled dielectric layer is selected from the group consisting of silicon dioxide and silicon nitride.
- 99. (New) The method of claim 93, wherein the at least one stress-controlled dielectric layer is elastic.
- 100. (New) The method of claim 93, wherein the at least one stress-controlled dielectric layer is substantially flexible.

- 101. (New) The method of claim 93, wherein the at least one stress-controlled dielectric layer is capable of forming at least one of a flexible membrane and a free standing membrane.
- 102. (New) The method of claim 93, further comprising providing a plurality of interconnect conductors formed within the at least one stress-controlled dielectric layer.
- 103. (New) The method of claim 93, wherein the at least one stress-controlled dielectric layer is formed by multiple RF energy sources.
- 104. (New) The method of claim 93, wherein the at least one stress-controlled dielectric layer is formed at a temperature of about 400°C.
- 105. (New) The method of claim 77, further comprising providing at least one thinned flexible substrate that has integrated circuits formed thereon.
- 106. (New) The method of claim 84, wherein the array of exposure cells includes at least one million cells.
- 107. (New) The method of claim 84, further comprising providing at least one stress-controlled dielectric layer.

- 108. (New) The method of claim 91, wherein the stress is tensile.
- 109. (New) The method of claim 84, wherein the stress of the at least one stress-controlled dielectric layer is 2 to 100 times less than the fracture strength of the at least one stress-controlled dielectric layer.
- 110. (New) The method of claim 109, wherein the stress is tensile.
- 111. (New) The method of claim 107, wherein the at least one stress-controlled dielectric layer is selected from the group consisting of silicon dioxide and silicon nitride.
- 112. (New) The method of claim 107, wherein the at least one stress-controlled dielectric layer is elastic.
- 113. (New) The method of claim 107, wherein the at least one stress-controlled dielectric layer is substantially flexible.
- 114. (New) The method of claim 107, wherein the at least one stress-controlled dielectric layer is capable of forming at least one of a flexible membrane and a free standing membrane.

- 115. (New) The method of claim 107, further comprising providing a plurality of interconnect conductors formed within the at least one stress-controlled dielectric layer.
- 116. (New) The method of claim 107, wherein the at least one stress-controlled dielectric layer is formed by multiple RF energy sources.
- 117. (New) The method of claim 107, wherein the at least one stress-controlled dielectric layer is formed at a temperature of about 400°C.
- 118. (New) The method of claim 84, further comprising providing at least one thinned flexible substrate that have integrated circuits formed thereon.